

Trip Report

50th and Hayes Site Washington, District of Columbia

10 December 1999

Prepared for
U.S. Environmental Protection Agency Region III
Removal Response Section
Philadelphia, PA

TDD No. 9909-0012 Contract No. 68-S5-3002

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1.0 INTRODUCTION

On 13 October 1999, the Roy F. Weston, Inc. (WESTON®), Site Assessment Technical Assistance (SATA) team was directed by U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC), Colby Stanton to conduct an additional site assessment/sampling event at the 50th and Hayes Site located in Washington, District of Columbia (DC). An initial site assessment/sampling event was performed on 10 September 1999. Analytical results from the first event showed several locations at the site which contained elevated levels of lead. The sampling event, which occurred on 21 October 1999, was performed to determine whether lead contamination extended outside the erected fence by EPA's initial removal action at the site and to perform hazardous categorization tests on the soils for ignitability.

2.0 BACKGROUND.

2.1 Location

The 50th and Hayes Site is located at 50th and Hayes Streets in Washington, DC as illustrated on Figure 1, Site Location Map (Automap Streets Plus, 1997).

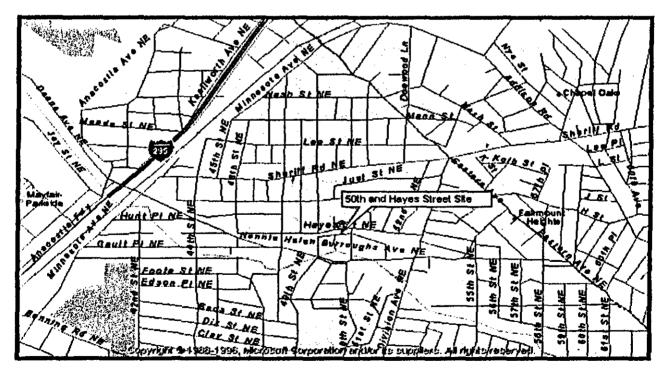


Figure 1
Site Location Map

2.2 Site Description

The site is an abandoned automobile chop shop in a predominantly residential area of Washington, DC. A grade school and a public church are located in close proximity to the site.

2.3 Site History

The 50th and Hayes Site has been investigated by the Washington, DC Environmental Crimes Unit (DCECU). DCECU requested the assistance of the EPA in assessing the environmental threat posed by the site and securing the site from public access (EPA, 1998).

Materials left on the site included drums filled with trash and oil/petroleum soaked debris, tires, miscellaneous car parts, and oil/petroleum products.

3.0 SITE ACTIVITIES

On 21 October 1999, a sampling event was conducted at the 50th and Hayes Site. OSC Colby Stanton, Civil Investigator (CI) Larry Richardson and OSC Mike Welsh and SATA members (b) (4) and (b) (4) met at the site at 1200 hours. A site walk-through was conducted, sample locations were marked with survey flags, and SATA members prepared for sampling activities.

3.1 Site Conditions and Observations

There was obvious visible contamination on the site, yet there were no signs of stressed vegetation. The majority of the site soils were saturated with oil/petroleum products. There were two drums on the site, one was filled with trash and the second was on its side and seemed to contain oil/petroleum soaked debris. The site was covered with loose gravel and asphalt and a large pile of gravel and tires were located along Hayes Street. A security/privacy fence had been installed in mid-September to dissuade trespassers.

The site is situated along the walking route of many elementary/middle school students living in the area, and children were observed within close proximity of the site. The rear of the site abuts a church.

The meteorological conditions during the sampling event were light winds with clear, sunny skies and temperatures in the middle to upper 60s. There were obvious signs of current rainfall in the area and puddles of standing water were scattered throughout the site during the event.

3.2 Sampling Activities

A total of nine surface soil samples were collected during the 21 October 1999 sampling event from within the fenced area and just outside of the fence line on the site. Samples SS-06, SS-07 and SS-11 were collected inside the fenced area

near the Little Mount Zion Church. Samples SS-08, SS-09 and SS-10 were collected along the outside of the fence line near the unnamed alley. Samples SS-12, SS-13, and SS-14 were collected outside the fence line along Hayes Street. The 10 sample locations are illustrated in Figure 2, Site Sketch. The samples collected were analyzed for lead. In addition to collecting samples for laboratory analyses, five soil samples were collected and field hazardous categorization (hazcat) tests were performed on the samples for ignitability and flammability. Samples for hazcat tests were collected from SS-01 through SS-05 (locations from the first sampling event on 10 September 1999).

All samples were handled and packaged in accordance with the sampling plan and were shipped via Federal Express to Compuchem Environmental Corporation in Cary, North Carolina.

4.0 ANALYTICAL RESULTS

Nine surface soil samples were collected and analyzed for lead only. The results of the analytical testing are as follows:

| Sample Identifier | Analytical Result (mg/kg) |
|-------------------|---------------------------|
| SS-06 | 379 |
| SS-07 | 261 |
| SS-08 | 70.8 |
| SS-09 | 310 |
| SS-10 | 154 |
| SS-11 | 166 |
| SS-12 | 200 |
| SS-13 | 233 |
| SS-14 | 2,810 |

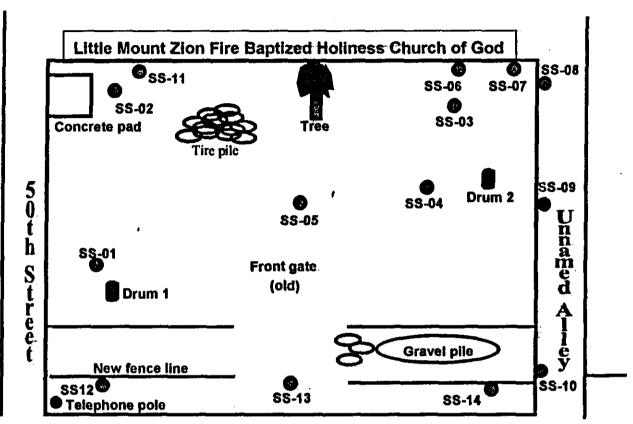
Because there are no guidances for lead within the Emergency Removal Guidelines (ERG), guidance can be found in an EPA memorandum, dated 14 July 1994, which recommends that a screening level of 400 parts per million (ppm) be used for lead in residential soil (EPA, 1994). Sample location SS-14 exceeds this recommendation with an analytical result of 2,810 ppm.

Five surface soil samples were collected for field hazcat testing. Samples SS-01, SS-03, and SS-04 did not exhibit ignitable or flammable characteristics. Samples SS-03 showed slight smoldering and a small brief flame was observed from sample SS-05.

5.0 FUTURE ACTIONS/RECOMMENDATIONS

SATA recommends that further soil sampling be performed around sample location SS-14 to determine the extent of lead contamination at the site and possible lead migration to surrounding properties.

FIGURE 2 SITE SKETCH



Hayes Street

6.0 REFERENCES

Automap Streets Plus. 1997 Edition. Microsoft Corporation.

EPA. (U.S. Environmental Protection Agency). 1994. Memorandum. Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities.

Office of Solid Waste and Emergency Response, Washington, DC. 14 July.

EPA. 1998. Regional Response Center Incident Notification Report. Philadelphia, PA. 23 July.

EPA. 1999. EPA Region III Risk-Based Concentration Table. Philadelphia, PA. 15 April.

ATTACHMENTS: 1 -

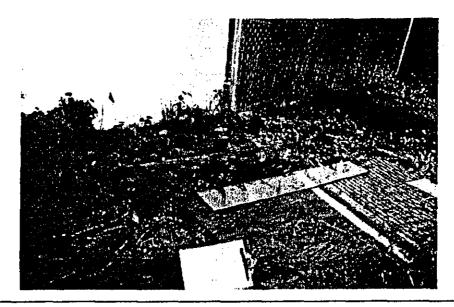
1 - Photograph Log

2 - Data Package

ATTACHMENT 1

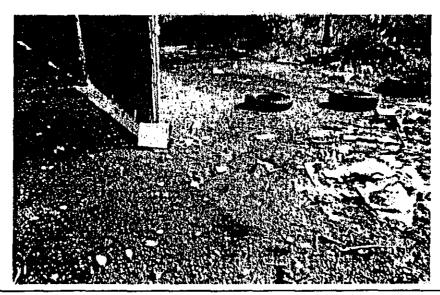
Photograph Log

Photograph Log
50th and Hayes Site
Washington, District of Columbia



Date Taken: October 1999 Photographer: Region III SATA

Description: Surface soil sample SS-03. Previous "hot spot" for

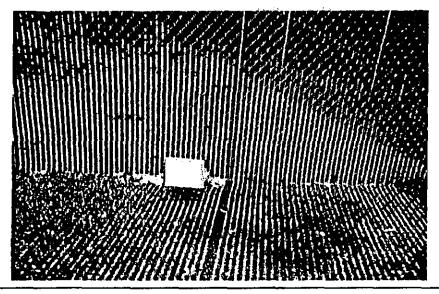


Date Taken: October 1999 Photographer: Region III SATA

Description: Surface soil sample SS-13. Located at the front gate

to the

Photograph Log 50th and Hayes Site Washington, District of Columbia



Date Taken: October 1999
Photographer: Region III SATA

Description: Surface soil sample SS-14.



Date Taken: October 1999 Photographer: Region III SATA

Description: SATA performing hazcat testing on surface soils for

ignitability.

ATTACHMENT 2

Data Package



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ENVIRONMENTAL SCIENCE CENTER 701 MAPES ROAD FORT MEADE, MD 20755-5350

DATE

: November 18, 1999

SUBJECT:

Region III .Data QA_Review

FROM

(b) (4)

Region III ESAT-RPO (3ES20)

TO

(b) (4)

Regional Project Manager (3HS31)

Attached is the inorganic data validation report for the 50th & Hayes site (Case #: R3724; SDG#: 00001) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 305-2629.

Attachment

cc: (b) (4) WA #: 0399302 Roy F. Weston, Delran, NJ

TDF: #1124

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

AR 100053

Appendix A

Glossary of Data Qualifier Codes

Appendix B

Data Summary Forms

Case #: R3724

SDG: 00001

Number of Soil Samples: 9

Site: 50th & Hayes

Lab. : COMPU

Number of Water Samples : 0

| 4 | Sample Number : | | R372401 | | R372402 | | R372403 | | R372404 | | R372405 | |
|---|---------------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|
| ļ | Sampling Location : | | \$5-06 | | SS-07 | | SS-08 | | 55-09 | | \$\$-10 | |
| ١ | Matrix: | | Soil | | Soil | | \$oil | | Soil | | Soil | |
| ŀ | Units: | | mg/kg | |
| | Date Sampled : | | 10/21/1999 | | 10/21/1999 | | 10/21/1999 | | 10/21/1999 | | 10/21/1999 | |
| ı | Time Sampled : | - | 12:45 | | 13:30 | | 13:10 | | 13:15 | | 13:20 | |
| ı | %Solids : | | 81.4 | | 80.7 | | 81.2 | | 68.1 | | 87.6 | |
| l | Dilution Factor: | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| [| ANALYTE | CRDL | Result | Flag | Result | Flag | Result | Flag | Result | Flao | Result | Flag |
| F | LEAD | 0.6 | 379 | | 261 | | 70.8 | | 310 | | 154 | |
| Į | | | | | | | | | | | | |

| Sample Number: Sampling Location: Matrix: Units: Date Sampled: | • | R372406 \$S-11 \$oil mg/kg 10/21/1999 | | R372407 8S-12 Soil mg/kg 10/21/1999 | 1 | R372408 SS-13 Soil mg/kg 10/21/1999 | | R372409 SS-14 Soil mg/kg 10/21/1999 | | | |
|--|------|---|------|---|------|---|------|---|---------|--------|------|
| Time Sampled : %Solids : Dilution Factor : | | 12:45 78.6 1.0 | | 12:55 86.9 1.0 | | 13:05 93.2 1.0 | | 13:05 85.0 1.0 | | | |
| MALYTE | CRDL | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| TEAD | e.u | 168 | | 200 | | 333 | | 2810 | | | |

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

Appendix C

Laboratory Form IS

EPA SAMPLE NO.

| La_Name: COM | PUCHEM | | Contract: I | LM | 04.0 | SS-06- | 1111111 |
|---|-------------------------|---------------------------------------|--------------------------------|-----------|----------------|--|-------------|
| | | se No.: 34 | 605_ SAS No. | | | | · / |
| Matrix (soil/ | | | | | | le ID: 9640 | _ |
| Level (low/me | d): LOW_ | | | | · | eived: 10/2 | |
| % Solids: | _81. | 4 | | | | | |
| C | oncentration | Units (ug | /L or mg/kg dr | y i | weight) | : MG/KG | |
| | | | | | | | |
| | CAS No. | Analyte | Concentration | C | Q | М | |
| | 7439-92-1 | Lead | <u> </u> | - - | | P_ | |
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| Color After: | YELLOW | Clarit | y After: | | • | Artifacts: | |
| Comments: Undecanted_ Duplicate_(| Dry_Weights_ SS-06D) | Contair Contair | mer:1.37gWet: mer:1.31gWet: | 5. 6. | 80gD: 39gD: | ry:5.79g ry:5.21g | |
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| Name: COM | PUCHEM | | Contract: I | LM04.0 | R 3.72462 |
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| Lab Code: COMI | PU_ Ca | se No.: 34 | 605_ SAS No. | : | SDG No.: 00001_ |
| Matrix (soil/v | water): SOIL | _ | | Lab Sam | ple ID: 964099 |
| Level (low/med | i): LOW_ | _ | | Date Red | ceived: 10/22/99 |
| * Solids: | _80. | 7 | | | |
| Co | oncentration | Units (ug | /L or mg/kg dry | y weight |): MG/KG |
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| | | | 605_ SAS NO. | | SDG No.: 00001_ |
| Matrix (soil/v | vater): SOIL | _ | | Lab Sam | ple ID: 964101 |
| Level (low/med | i): LOW_ | | | Date Re | ceived: 10/22/99 |
| % Solids: | _68. | 8 | | | |
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| Lab Code: COM | PU_ Ca | se No.: 34 | 605_ SAS No. | : | | SDG No.: | 00001_ |
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| Level (low/me | d): LOW_ | | | Dat | e Red | ceived: 10/2 | 2/99 |
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| Matrix (soil, | /water): SOII | <u></u> | | La | b Sam | ple ID: 964104 |
| Level (low/me | ed): LOW_ | · | | Da | te Re | ceived: 10/22/99 |
| % Solids: | _86. | . 9 | | | | |
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| Lab Code: COMPU | _ Cas | se No.: 34 | 605_ SAS No. | : | SDG No.: | 00001_ |
| Matrix (soil/wa | ter): SOIL | _ | | Lab Samp | ole ID: 9641 | 05 |
| Level (low/med) | : LOW_ | _ | | Date Rec | eived: 10/2 | 2/99 |
| % Solids: | _93.2 | 2 | | | | |
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| Lab Code: COM | PU_ Ca | se No.: 34 | 605_ SAS No. | : | SDG No.: 00001 |
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| olor Before: | BROWN | lClarii | y Before: | i | l <u> </u> |
| olor After: | | Clarit | · | | Artifacts: |
| omments: | | | | | · · · · · · · · · · · · · · · · · · · |
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FORM I - IN

ILMU4.

CRDL STANDARD FOR AA AND ICP

| _ | | | |
|-------------------|------------------|-------------------|-----------------|
| Lab Name: COMPUCH | EM | Contract: ILM04.0 | · |
| Lab Code: COMPU_ | Case No.: 34605_ | SAS No.: | SDG No.: 00001_ |
| AA CRDL Standard | Source: | | |
| ICP CRDL Standard | Source: HIPUR | | |

Concentration Units: ug/L

| | CRDL St | andard fo | or AA | | CRDL Standard for ICP Initial Final | | | | | |
|-------------|---------|-------------|-------|------|-------------------------------------|-------|-------|-------------|--|--|
| Analyte | True | Found | %R | True | | *R | Found | ₹R | | |
| Lead | | | | 6.0 | 6.24 | 104.0 | 6.48 | _108.0 | | |
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Control Limits: no limits have been established by EPA at this time

2B CRDL STANDARD FOR AA AND ICP

| Lab | Name: | СОМРИСНЕМ | | Contract: | ILM04.0_ | ····· | |
|------|--------|-----------------|------------------|-----------|-------------|----------|--------|
| Lab | Code: | COMPU_ | Case No.: 34605_ | SAS No.: | | SDG No.: | 00001_ |
| AA C | RDL St | andard Source | 2: | | | | |
| ICP | CRDL S | Standard Source | ce: HIPUR | | | | • |

Concentration Units: ug/L

| | CRDL St | andard fo | r AA | | CRDL Star | ndard : | for ICP Final | 1 |
|--------|---------|-----------|------|------|-----------|---------|------------------|-------|
| nalyte | True | Found | *R | True | Found | *R | Found | *R |
| ead | | | | 6.0 | | | 7.12 | _118. |
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Control Limits: no limits have been established by EPA at this time

3 BLANKS

| Lab | Name: | COMPUCHEM | | Contract: | ILM04.0 |
|-----|-------|-----------|------------------|------------|-----------------|
| Lab | Code: | COMPU_ | Case No.: 34605_ | SAS No.: _ | SDG No.: 00001_ |

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

| | Initial Calib. | | Cont: | in | uing Calib lank (ug/L | rai | tion | | Prepa- | |
|-----------------------------------|---------------------------------------|------------|-------|------------|--|----------|-------------|---------|----------------|-----|
| | Blank | | | В | lank (ug/L |) | | - 1 | ration | |
| Analyte | (ug/L) | C | 1 | C | 2 | C | 3 | c | Blank C | М |
| MINITYCE | (ug/b/ | _ | _ | _ | • | _ | • | ٦ | Brank C | " |
| Lead | 1.50_ | Ū | 1.50_ | Ü | 1.50_ | Ū | 1.50_ | <u></u> | 0.30 0 | P_ |
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3 BLANKS

| Lab | Name: | ССМРИСН | EM | Contract: | ILM04.0 | | |
|------|--------|---------|------------------------|--------------|------------|------|--------|
| Lab | Code: | COMPU_ | Case No.: 34605_ | SAS No.: | sdg | No.: | 00001_ |
| Prep | aratio | n Blank | Matrix (soil/water): _ | | | | |
| Prep | aratio | n Blank | Concentration Units (u | g/L or mg/kg |) : | | |

| Analyte | Initial Calib. Blank (ug/L) | C | * | in B C | uing Calib lank (ug/L) 2 | rai C | tion 3 | С | Prepa- ration Blank C | ŀ |
|-------------|--------------------------------------|--------|---------------|--------------|--------------------------------|----------|-------------|-----------------|-----------------------------|-------------|
| Lead | | \top | 1.72 | В | 1.50 | Ū | | - -1 | <u> </u> | P |
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13 PREPARATION LOG

| Name: | COMPUCHEM | Contract: | ILMO4.0 |
|-------|-----------|-----------|---------|

Lab Code: COMPU_ Case No.:_34605_ SAS No.: ____ SDG No.:00001_

Method: P_

| EPA Sample No. | Preparation Date | Weight (gram) | Volume (mL) |
|----------------------|---------------------|------------------|----------------|
| Sample | | | |
| | | | |

ANALYSIS RUN LOG

| Ն(| Name: | COMPUCHEM_ | |
|----|-------|------------|--|
|----|-------|------------|--|

__ Contract: ILM04.0___

Lab Code: COMPU_ Case No.: 34605_ SAS No.: ____ SDG No.:00001_

Instrument ID Number: ICP3_____

Method: P_

Start Date: 10/28/99

End Date: 10/28/99

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|----------------|------|------|---------------|----------|--------------------|--|
| | | | | | ŀ | Analytes |
| EPA | D/D | m; | | R | = | |
| Sample | D/F | Time | * | K | PB | |
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| icv | 1.00 | 1540 | | | · - | |
| icv | 1.00 | 1548 | | | ĺ⊼ | |
| ICV | 1.00 | 1555 | | | 1" | |
| ICB | 1.00 | 1602 | | | Ī | |
| I.PS | 1.00 | 1610 | | | " | <u> </u> |
| 4 | 1.00 | 1617 | | | ĺχ | |
| ICSA | 1.00 | 1624 | | | X | |
| ICSAB | 1.00 | 1632 | | | X | |
| CCV | 1.00 | 1639 | - | <u></u> | X | |
| CCB | 1.00 | 1646 | | | X | |
| ZZZZZZ | 1.00 | 1657 | | | | |
| ZZZZZZ | 1.00 | 1704 | | | 1- | |
| ZZZZZZ | 1.00 | 1711 | | | - | |
| ZZZZZZ | 1.00 | 1718 | | | | |
| ZZZZZZ | 1.00 | 1724 | | | | |
| ZZZZZZ_ | 1.00 | 1731 | | | <u> </u> _ | |
| ZZZZZZ | 1.00 | 1738 | | | I_ | |
| ZZZZZZ_ | 1.00 | 1745 | | | | |
| ZZZZZZ | 5.00 | 1752 | | | | |
| ZZZZZZ_ | 1.00 | 1758 | | | | |
| ccv | 1.00 | 1805 | | | X | |
| CCB | 1.00 | 1812 | | | X | |
| ZZZZZZ | 1.00 | 1819 | | | _ | |
| zzzzz <u> </u> | 1.00 | 1825 | | | | |
| ZZZZZZ | 1,00 | 1832 | | | _ | |
| ZZZZZZ_ | 1.00 | 1839 | | | _ | <u></u> |
| ll | | | | | _ | . _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ |

FORM XIV - IN

ILM04.

14 ANALYSIS RUN LOG

D Name: COMPUCHEM_____ Contract: ILM04.0___

Lab Code: COMPU_ Case No.: 34605_ SAS No.: ____ SEG No.:00001_

Instrument ID Number: ICP3 Method: P_

Start Date: 10/28/99 End Date: 10/28/99

| | | | | | | Analytes |
|---------|--------------|------|----------|---|-----|----------|
| EPA | 5/5 | m | . ا | _ | = | |
| Sample | D/F | Time | * | R | PB | |
| No. | |] | | | " | |
| ZZZZZZ | 1.00 | 1846 | | | | |
| ZZZZZZ | 1.00 | 1853 | | | | |
| ZZZZZZ | 5.00 | 1859 | | | | |
| CRI | 1.00 | 1906 | | | X | |
| ICSA | 1.00 | 1913 | | | X | |
| ICSAB | 1.00 | 1920 | <u> </u> | | X | |
| ccv | 1.00 | 1926 | | | X | |
| CCB | 1.00 | 1933 | | | X | · |
| ZZZZZZ_ | 1.00 | 1940 | | | . _ | , |
| PBS | 1.00 | 1947 | | | X | |
| CSS | 1.00 | 1954 | | | X | |
| \s-06 | 1.00 | 2000 | l | | X | |
| SS-06S | 1.00 | 2007 | | | x | |
| SS-06D | 1.00 | 2014 | | | x | |
| SS-06L | 5.00 | 2021 | | | x | |
| SS-06A | 1.00 | 2027 | <u> </u> | | . _ | |
| SS-07 | 1.00 | 2034 | l | | X | |
| SS-08 | 1.00 | 2041 | | | X | |
| ccv | 1.00 | 2048 |] | | x | |
| CC3 | 1.00 | 2055 | ١ | | X | |
| SS-09 | 1.00 | 2101 | · | | X | 4 |
| SS-10 | 1.00 | 2108 | | | x | |
| SS-11 | 1.00 | 2115 | | | X | |
| SS-12 | 1.00 | 2122 | | | X | |
| SS-13 | 1.00 | 2128 | | | X | |
| SS-14 | 1.00 | 2135 | | | x | |
| ZZZZZZ | 1.00 | 2142 | | | . _ | |
| CRI | 1.00 | 2149 | | | X | |
| ICSA | 1.00 | 2156 | | | X | |
| ICSAB | 1.00 | 2202 | | | X | |
| ccv | 1,00 | 2209 | | | X | |
| CCB | 1.00 | 2216 | | | X | |
| l | | | <u> </u> | | . _ | . _{ |

10 Instrument Detection Limits (Quarterly)

| L= Name: COMPUCHEM | | Contract: | ILM04.0 | | |
|------------------------|----------------|-----------|---------|----------|--------|
| Lab Code: COMPU_ Cas | se No.: 34605_ | SAS No.: | | SDG No.: | 00001_ |
| ICP ID Number: | | Date: | | | |
| Flame AA ID Number : | | | | | |
| Furnace AA ID Number : | | | | | |

| Analyte | Wave- length (nm) | Back- ground | CRDL (ug/L) | IDL (ug/L) | м |
|---------------|-------------------------|-----------------|-------------|---------------|-------------|
| Lead | 220.35 | | 3 | 1.5 | P |
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FORM X - IN

Appendix D
Support Documentation

| | U.S. EPA REGION 3 | ECION 3 | CHAIN OF CUSTONY RECORD | DY RECORD | | | REFERENCE No. | 1. R3724 | 74 | LYG. | PAGE LOF (| | |
|----------------------------|-------------------|----------|--|---------------------------------|--|----------|----------------------------------|---|-------------------------------------|-----------|------------------------------|---------|-----------------|
| PROGRAM SUPA IND | | | SAMPLER: | | (4) | (b) | | COLUMIN A MATRIX | COLUMN R PRESERVATION | N B | Con | | COLUMIN TXPE |
| ACCOUNT No | | | SAMPLING ORGANIZATION: ROY F. WESTON, INC. REGION | IZATION: IC. REGION III SATA | VTA | : | | I. SURFACE WATER 2. GROUND WATER | 1. 1ICL 2. LINO3 | | (b) BLANK (S) SPIKE | § § | (C) COLUMNS |
| Remail Assisment | SSETSO | pent | DATE SHIPPED: | CARIJER: | FEDEX | | | 3. LEACHATE 4. FIELD QC | 1. NaliSO4 4. HZSO4 | | (D) DUPLICATE (R) RINSATE | | DO OPLE |
| AIRINIA No. 5157 0895 5532 | 0895 | 5532 | site: R | 3724 | | | | S.SOIL/SEDIMENT 6. OIL (HIGH ONLY) | S. NaOil 6. K2Ci207 | | (PE) P. EVAL | E & | ms/ms |
| "Weshinghan | 15 | STATE: | SIIIP TO: | 9405 8508 8508 8508 | hen Enimonedal ison Avenue n 23519 | 1 | Corporation | 7. WASTE (IIIGII ONLY) 8. OTIIER: | 7. ICE F. NONE 9. OTHER: | | (DP) DAIP. PAIR SPECIFY: | | R3724C |
| SHIPMENT COMPLETER (Y) N) | (N(A)):3 | FINAL SH | FINAL SHIP DATE TO LAB: (0 | 55 12 (| TOTAL NUN | ABER OF | TOTAL NUMBER OF SAMPLES SHIPPED: | | TOTAL NUMBER OF CONTAINERS SHIFTED: | ER OF C | ONTAINERS | SILIPPE | ä |
| | (b) (4) | RECEIVED | RECEIVED BY SIGNATURE: | DATE | TIME | RELINQ | RELINQUISILED BY SIGNATURE | | RECEIVED BY SIGNATURE: | TANDIS | JRE: | DATE | - |
| 2011 | | | | | | | | | | | | | |
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| 8372401 | 5500 | | SS-06 | 8 | -3012157 | 7 | 10/21/99 | 1246 | X | | | 7 | 1 |
| R373403 | SS-C3 | | 55-07 | Ġ, | 3-301915R | 8 | <i>विद्यादित</i> | 1330 | X | | | パ |) |
| R378403 | 35-08 | | SS-08 | 4 | 3-301219 | | विद्या | 1310 | X | | | 5 | 1 |
| K3339404 | 55.55 | | 53-08 | 3 | -30/8/cc | <u> </u> | 10/21/99 | 1315 | X | | | 17 | 1 |
| R37-3405 | 58:10 | | SS-10 | K | उन्डाजा | | ध्याष्ट्राव | | X | | | ろし | 1 1 |
| ド372との | 153-11 | | 58-11 | , | 5-3012163 | | 10/31/99 | 1245 | X | | | 57 | (|
| R333403 | 55-13 | | 58-12 | (') | 3-3012163 | (03 | 10/21/PS | 1255 | X | | - / | 5 | |
| 6372408 | 55-13 | | 55 - 13 | 3 | 3-3012164 | he, | 15/21 156 | 1365 | メ | | | 7 | |
| 63724091 | 58-14 | | 55 - 14 | 8 | 6383-3012165 | 165 | 10/21 95 | 1305 | X | | | 5 | ' |
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| PARAMETERS 1 | 2007 | | | | | | | | | | | | |
| PARAMETERS 2 | | | | | | | | | | | | | |
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| FARAMETERS 5 | | | | | | | | | | ļ | | | 1 |

U.S. EPA Region III Sample Scheduling Request Form

| S CASE No: DA | | | | AS No: R3724 | | NSF No: | | | | | |
|--|--------------------|----------|-------------------|-----------------------------------|-----------------------|------------------|----------------------------|--------------------------------|-----------|--|--|
| Date: 10/14/99 & Data Validation Level: M1, IM | | | | | 1, IMI EPA Lab Reply: | | | | | | |
| Site Name: 50th | | | | | | | | | | | |
| Address: 50th & Hayes | | | | | ì | City: Washingt | on | | State: DC | | |
| Latitude: | | | Longit | ude: | | | Altitude: | | | | |
| Program: Superfund . | | | CERC | LIS No: DCSFN0: | 3054 | 31 | Activity: Removal | | | | |
| Account No: 00T03N50102DC332QB00 | | | Op | Operable Unit: | | | | C32 | | | |
| Preparer: (b) (4) | | | RPM/I | ?O: | | | Site Leader | (b) (4) | | | |
| Phone: 856-461-4002 Ext 243 | | | Phone: | Phone: 215-814-3299 | | | | -461-4003 E: | rt 225 | | |
| FAX: 856-461-4916 | | | FAX: 215-814-3254 | | | | FAX: 856-4 | 61-4916 | | | |
| E-mail: reg3sata@uscom.com | | | | s (b) (4) | | | E-mail: reg3s2t2@uscom.com | | | | |
| EPA CO: Deborah Eble | | | Contra | Contract Type: SATA Prime: Weston | | | | Sub: | | | |
| Lab Assignment Date: | | | | TAT: 14 days | | | | Shipping From: 21 October 1999 | | | |
| Organic Lab: | Shipping To: 21 Oc | | | | o: 21 Octobe | ober 1999 | | | | | |
| Inorganic Lab: | | | | | | Carrier: Fed Ex. | | | | | |
| SAMPLES METHOD | | | ' PARAMETER | | | | | | MATRIX | | |
| • | ILM04 | 1.0 | Tota | l Lead | | | | | Soli | | |
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NOTE: Data validation levels M3 & IM2 require justification. QC field samples must be included as part of total number of samples.

^{1.} Special Instructions: OSC needs unvalidated results faxed to her at above number as soon as received at RSCC.

^{2.} Objectives / Project Plan ID / Permit ID: To determine if further actions are needed at an ongoing emergency removal site. Data is needed in a rush to prevent work hold ups.

^{3.} Program / Project / Per .nit Reporting Limits As per Method

^{4.} DQO (QC Requirements) As per Method

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

| Lab Name: COMPUCHEM | Contract: ILM04.0 | _ |
|--|---|--|
| Lab Code: COMPU_ Case No.: 34605 | SAS No.: | SDG No.:00001_ |
| SOW No.: ILM04.0 | | |
| EPA Sample NoSS-06 _SS-06D _SS-06S _SS-07 _SS-08 _SS-09 _SS-10 _SS-11 _SS-12 _SS-13 _SS-14 | Lab Sample ID _964094 _964095 _964099 _964100 _964101 _964103 _964104 _964105 _964106 | |
| | | · |
| Were ICP interelement corrections appl | lied ? | Yes/No YES |
| Were ICP background corrections applie If yes - were raw data generated | | Yes/No YES |
| application of background correct | | Yes/No NO_ |
| Comments: | • | |
| | | |
| | • | |
| I certify that this data package is in conditions of the contract, both technother than the conditions detailed about this hardcopy data package and in ton floppy diskette has been authorized Manager's designee, as verified by the Signature: Date: | rically and for completive. Release of the distribution of the distribution of the distribution of the distribution of the Laboratory Market following signature. (b) (4) Name: | teness, for ata contained data submitted |

COVER PAGE - IN

ILM04.0

a Division of Liberty Analytical Corp. 501 Madison Avenue Cary. NC 27513

INORGANIC CASE SUMMARY NARRATIVE DASRST 24 CASE # 34605 SDG # 00001 CONTRACT # ILM04.0 EGAT (D.V.) 1/1/4^{CM}

The indicated Sample Delivery Group (SDG) consisting of nine (9) soil samples was received into the laboratory information management system (LIMS) on October 22, 1999 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with EPA CLP Statement of Work (SOW) document ILM04.0 for lead.

SAMPLE IDs:

Customer IDs and correlating laboratory IDs are listed on the cover page.

INSTRUMENTAL QUALITY CONTROL: •

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

COMPUCHEM utilizes a soil Laboratory Control Sample (LCS) purchased from Environmental Resources Associates (ERA). With each lot of soil LCS material purchased, a certification document is included which provides Performance Acceptance Limits TM (PAL TM). The limits are listed as guidelines for acceptable results and closely approximate the 95% confidence interval. As with any LCS, it is a QC measure used to demonstrate control and any results, which are outside the acceptance criteria, require corrective action up to and including redigesting and reanalyzing the entire sample preparation batch.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = 964095 (SS-06S) was found to be inside CLP control limits for the requested analytes.

CLP control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = 964096 (SS-06D) was inside CLP control limits for the requested analyses.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 964094 (SS-06L) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were inside CLP control limits for the requested analytes.

This SDG package was processed using the Ward Scientific software. This software package has a seven character limitation on the Forms 13 and 14 - any sample 1D's which exceed seven characters are truncated from left to right on these forms.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Thomas R. Cole Chemist II October 29, 1999 All data for Case R3724, SDG 00001, were reviewed in accordance with the Innovative Approaches for Validation of Inorganic Data, June 1995, in conjunction with the Region III Modifications to the Inorganic National Functional Guidelines.

ATTACHMENTS

APPENDIX A Glossary of Data Qualifier Codes

APPENDIX B Data Summary Forms

APPENDIX C Laboratory Form Is

APPENDIX D Support Documentation

DCN: R3724.rpt

Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20753-5350
ephone 410-305-3037 Facsimile 410-305-3597



DATE:

November 12, 1999

SUBJECT:

Level IMI Inorganic Data Validation

DAS: R3724, SDG:-00001

Site: 50th & Hayes

FROM:

(b) (4)

Senior Data Reviewer

Thru:

(b) (4)

Senior Oversight Chemist

TO:

(b) (4)

ESAT Regional Project Officer

OVERVIEW

DAS R3724, Sample Delivery Group (SDG) 00001, consisted of nine (9) soil samples analyzed for total lead by Compuchem (COMPU). No field Quality Control (QC) samples were included in the sample set. Samples were analyzed according to Contract Laboratory Program (CLP) Statement of Work (SOW) ILM04.0 through Delivery of Analytical Services (DAS) program:

Sample R372409 (Station Location SS-14) exceeded the lead Ten Day Chemical Health Advisory Limit of 500 mg/kg. The lead concentration in this sample was 2810 mg/kg. The Regional Project Manager (RPM) was notified by facsimile.

SUMMARY

Validation was performed according to EPA Innovative Approaches for Inorganic Data Validation, Level IM1, which includes review of all Quality Assurance/Quality Control (QA/QC) measurements and excludes review of the raw data.

No Major or Minor Problems were noted during review of data for this DAS.

NOTES

Station Location instead of EPA sample numbers were used to report data on all Forms by the laboratory. Station Locations were corrected to EPA sample numbers on Form Is by the by the reviewer.